

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-55
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Caterpillar, Inc. 1990 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems (Special Features)</u>
LCT0403FZD3	6.6	(403)	Smoke Puff Limiter (Charge Air Cooler) (Turbocharger)

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family:

<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
1.3	15.5	6.0	0.6

The following are the certification emission values for this engine family:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Particulates gm/bhp-hr</u>
LCT0403FZD3	0.4	2.5	4.2	0.4

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Health and Safety Code Section 43205.5 and Title 13, California Code of Regulations, Section 2036).

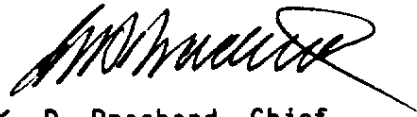
Engines certified under this Executive Order must conform to all applicable California emission regulations.

CATERPILLAR, INC.

EXECUTIVE ORDER A-13-55
(Page 2 of 2)

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 24th day of November, 1989.



K. D. Drachand, Chief
Mobile Source Division

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family LCT0403FZD3
 Liter (CID) 6.6 (403) Engine Type 16
 Emission Control Sys. and (Special Features) SPL (TC, CAC)

Engine Model	*Fuel Injection Pump Manufacturer Part Number	Injector Manufacturer Part Number	Maximum Rated hp at rpm	Fuel Rate mm ³ /stroke (lbs/hr)	Maximum Rated Torque at rpm	Fuel Rate mm ³ /stroke (lbs/hr)
3116 Code A	*Caterpillar 9Y6692	Caterpillar 7E5998	250 @ 2600	106 (92.4)	650 @ 1560	127 (66.8)
Code B	*Caterpillar 9Y6692	Caterpillar 7E5998	215 @ 2600	91 (79.2)	605 @ 1560	116 (61.1)
Code C	*Caterpillar 9Y6692	Caterpillar 7E5998	185 @ 2600	77 (67.8)	520 @ 1560	100 (52.4)
Code D	*Caterpillar 9Y6692	Caterpillar 7E5998	170 @ 2600 165 @ 2600	72 (62.7) 69 (60.7)	420 @ 1560 420 @ 1560	81 (42.3) 81 (42.3)
Code E	*Caterpillar 9Y6692	Caterpillar 7E5998	185 @ 2600	77 (67.8)	495 @ 1560	95 (49.8)
Code F	*Caterpillar 9Y6692	Caterpillar 7E5998	225 @ 2600	93 (81.5)	636 @ 1560	122 (64.2)
Code G	*Caterpillar 9Y6692	Caterpillar 7E5998	215 @ 2600	93 (81.0)	605 @ 1560	119 (62.7)

*Basic Fuel Pump 7E8952

(Reference Page No. 16.05.01-0403FZD-1.).

Date of Issue 06 OCT 89
 Revisions: No. 1 16 FEB 90
 No. 2 02 APR 90
 No. 3 09 MAY 90